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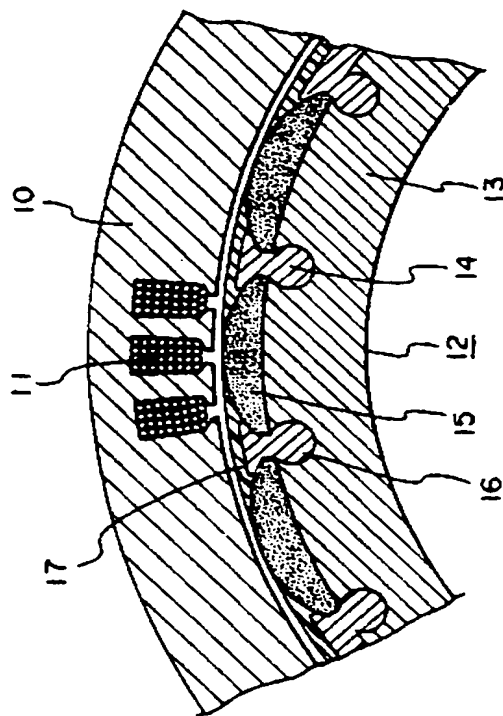
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TITLE : PERMANENT MAGNET ROTOR OF
ROTARY ELECTRIC MACHINE



ABSTRACT : PURPOSE: To accurately and readily position and secure a permanent magnet by securing the magnet on a rotor yoke with a magnet clamp and resin.

CONSTITUTION: A rotary electric machine is composed of a rotor 12 and a stator 10 having a winding 11 contained in slots 16. The yoke 13 of the rotor 12 is mounted on a rotational shaft, and the engaging slots 16 of circular section are formed on the outer periphery. A magnet clamp 14 of a nonmagnetic material is inserted into the slots 16, and used as a member for positioning and securing. Thus, a permanent magnet 15 is disposed between the clamps 14, and the magnet 15 is axially secured to the yoke 13 by bonding. Thus, even when an exfoliation occurs due to certain cause during the rotation of the rotor 12, the clamp 14 becomes a stopper, and the magnet 15 may not fly out from the yoke 13. Further, resin 17 is filled and solidified between the magnets 15 to form the rotor 12 of smooth cylindrical surface.

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